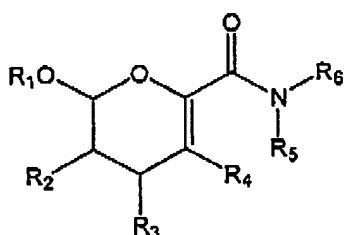


AMENDMENT TO THE CLAIMS

The Listing of Claims presented below will replace all prior versions, and listings, of claims in the application:

1. (Original) A compound having the structure:



(I)

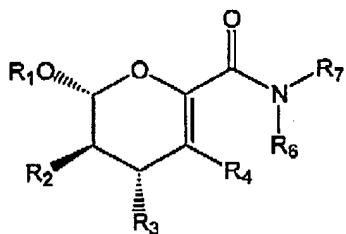
wherein R₁-R₄ are each independently hydrogen or an aliphatic, heteroaliphatic, aryl, heteroaryl, alkylaryl or alkylheteroaryl moiety;

R₅ and R₆ are each independently hydrogen or an aliphatic, heteroaliphatic, aryl, heteroaryl, alkylaryl, or alkylheteroaryl moiety, and wherein R₆ and R₇, taken together, may form a cyclic aliphatic, heteroaliphatic, aliphatic(aryl), heteroaliphatic(aryl), aliphatic(heteroaryl) or heteroaliphatic(heteroaryl) moiety, or an aryl or heteroaryl moiety;

wherein each of the foregoing aliphatic and heteroaliphatic moieties may be substituted or unsubstituted, cyclic or acyclic, saturated or unsaturated or linear or branched; and each of the foregoing aryl, heteroaryl, alkylaryl or alkylheteroaryl moieties may be substituted or unsubstituted; and

pharmaceutically acceptable derivatives thereof.

2. (Original) The compound of claim 1, wherein the compound has the structure (II):



(II)

wherein R₁-R₄ are each independently hydrogen or an aliphatic, heteroaliphatic, aryl, heteroaryl, alkylaryl or alkylheteroaryl moiety;

R₅ and R₆ are each independently hydrogen or an aliphatic, heteroaliphatic, aryl, heteroaryl, alkylaryl, or alkylheteroaryl moiety, and wherein R₆ and R₇, taken together, may form a cyclic aliphatic, heteroaliphatic, aliphatic(aryl), heteroaliphatic(aryl), aliphatic(heteroaryl) or heteroaliphatic(heteroaryl) moiety, or an aryl or heteroaryl moiety;

wherein each of the foregoing aliphatic and heteroaliphatic moieties may be substituted or unsubstituted, cyclic or acyclic, saturated or unsaturated or linear or branched; and each of the foregoing aryl, heteroaryl, alkylaryl or alkylheteroaryl moieties may be substituted or unsubstituted; and

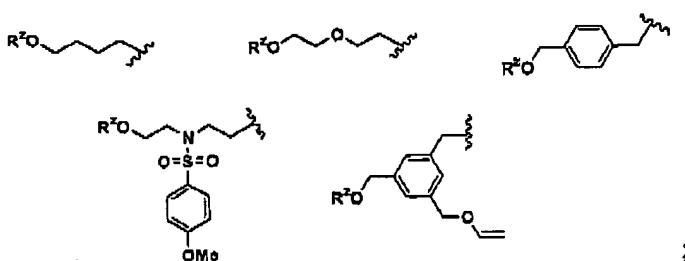
pharmaceutically acceptable derivatives thereof.

3. (Original) The compound of claim 1, wherein R¹ is hydrogen or an alkyl, heteroalkyl, aryl or heteroaryl moiety substituted with Z, wherein Z is hydrogen, -(CH₂)_qOR^Z, -(CH₂)_qSR^Z, -(CH₂)_qN(R^Z)₂, -(C=O)R^Z, -(C=O)N(R^Z)₂, or an aliphatic, heteroaliphatic, aryl, heteroaryl, -(aliphatic)aryl, -(aliphatic)heteroaryl, -(heteroaliphatic)aryl, or -(heteroaliphatic)heteroaryl moiety, wherein q is 0-4, and wherein each occurrence of R^Z is independently hydrogen, a protecting group, a solid support unit, or an aliphatic, heteroaliphatic, aryl, heteroaryl, -(aliphatic)aryl, -(aliphatic)heteroaryl, -(heteroaliphatic)aryl, or -(heteroaliphatic)heteroaryl moiety; wherein each of the foregoing alkyl or heteroalkyl moieties may be substituted or unsubstituted, linear or branched, cyclic or acyclic, saturated or unsaturated; and wherein each of the foregoing aryl, heteroaryl, -(alkyl)aryl, -(alkyl)heteroaryl, -(heteroalkyl)aryl, or -(heteroalkyl)heteroaryl moieties may be substituted or unsubstituted.

4. (Original) The compound of claim 3, wherein R¹ is hydrogen, lower alkyl, a substituted or unsubstituted phenyl or -(lower alkyl)phenyl moiety, -(CH₂)_nOR^Z, -[(CH₂)_nO]_mR^Z, -(CH₂)_n-Ar-(CH₂)_mOR^Z; wherein n and m are each independently integers from 1-6, Ar represents a substituted or unsubstituted aryl or heteroaryl moiety, and R^Z is independently hydrogen, a protecting group, a solid support unit, or an aliphatic, heteroaliphatic, aryl, heteroaryl, -(aliphatic)aryl, -(aliphatic)heteroaryl, -(heteroaliphatic)aryl, or -(heteroaliphatic)heteroaryl moiety; wherein each of the foregoing alkyl or heteroalkyl moieties may be substituted or

unsubstituted, linear or branched, cyclic or acyclic, saturated or unsaturated; and wherein each of the foregoing aryl, heteroaryl, -(alkyl)aryl, -(alkyl)heteroaryl, -(heteroalkyl)aryl, or -(heteroalkyl)heteroaryl moieties may be substituted or unsubstituted.

5. (Original) The compound of claim 4, wherein R¹ is hydrogen, ethyl, or has one of the structures:



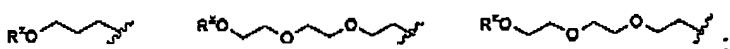
wherein R² is as defined in claim 4.

6. (Original) The compound of claim 1, wherein R² is hydrogen or an alkyl, heteroalkyl, aryl or heteroaryl moiety substituted with Z, wherein Z is hydrogen, -(CH₂)_qOR², -(CH₂)_qSR², -(CH₂)_qN(R²)₂, -(C=O)R², -(C=O)N(R²)₂, or an aliphatic, heteroaliphatic, aryl, heteroaryl, -(aliphatic)aryl, -(aliphatic)heteroaryl, -(heteroaliphatic)aryl, or -(heteroaliphatic)heteroaryl moiety, wherein q is 0-4, and wherein each occurrence of R² is independently hydrogen, a protecting group, a solid support unit, or an aliphatic, heteroaliphatic, aryl, heteroaryl, -(aliphatic)aryl, -(aliphatic)heteroaryl, -(heteroaliphatic)aryl, or -(heteroaliphatic)heteroaryl moiety; wherein each of the foregoing alkyl or heteroalkyl moieties may be substituted or unsubstituted, linear or branched, cyclic or acyclic, saturated or unsaturated; and wherein each of the foregoing aryl, heteroaryl, -(alkyl)aryl, -(alkyl)heteroaryl, -(heteroalkyl)aryl, or -(heteroalkyl)heteroaryl moieties may be substituted or unsubstituted.

7. (Original) The compound of claim 6, wherein R² is hydrogen, lower alkyl, a substituted or unsubstituted phenyl or -(lower alkyl)phenyl moiety, -(CH₂)_nOR², -[(CH₂)_nO]_mR², -(CH₂)_n-Ar-(CH₂)_mOR²; wherein n and m are each independently integers from 1-6, Ar represents a substituted or unsubstituted aryl or heteroaryl moiety, and R² is independently hydrogen, a protecting group, a solid support unit, or an aliphatic, heteroaliphatic, aryl, heteroaryl, -

(aliphatic)aryl, -(aliphatic)heteroaryl, -(heteroaliphatic)aryl, or -(heteroaliphatic)heteroaryl moiety; wherein each of the foregoing alkyl or heteroalkyl moieties may be substituted or unsubstituted, linear or branched, cyclic or acyclic, saturated or unsaturated; and wherein each of the foregoing aryl, heteroaryl, -(alkyl)aryl, -(alkyl)heteroaryl, -(heteroalkyl)aryl, or -(heteroalkyl)heteroaryl moieties may be substituted or unsubstituted.

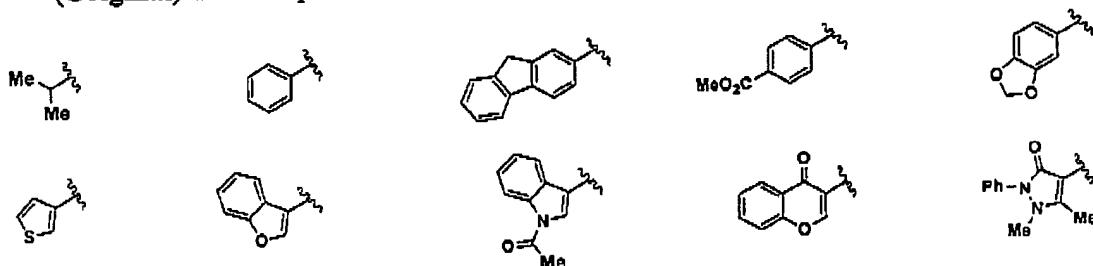
8. (Original) The compound of claim 6, wherein R² is hydrogen or has one of the structures:



wherein R² is as defined in claim 6.

9. (Original) The compound of claim 1, wherein R³ is an alkyl, heteroalkyl, aryl, heteroaryl, -(alkyl)aryl, -(alkyl)heteroaryl, -(heteroalkyl)aryl, or -(heteroalkyl)heteroaryl moiety; wherein each of the foregoing alkyl or heteroalkyl moieties may be substituted or unsubstituted, linear or branched, cyclic or acyclic, saturated or unsaturated; and wherein each of the foregoing aryl, heteroaryl, -(alkyl)aryl, -(alkyl)heteroaryl, -(heteroalkyl)aryl, or -(heteroalkyl)heteroaryl moieties may be substituted or unsubstituted.

10. (Original) The compound of claim 9, wherein R³ has one of the structures:



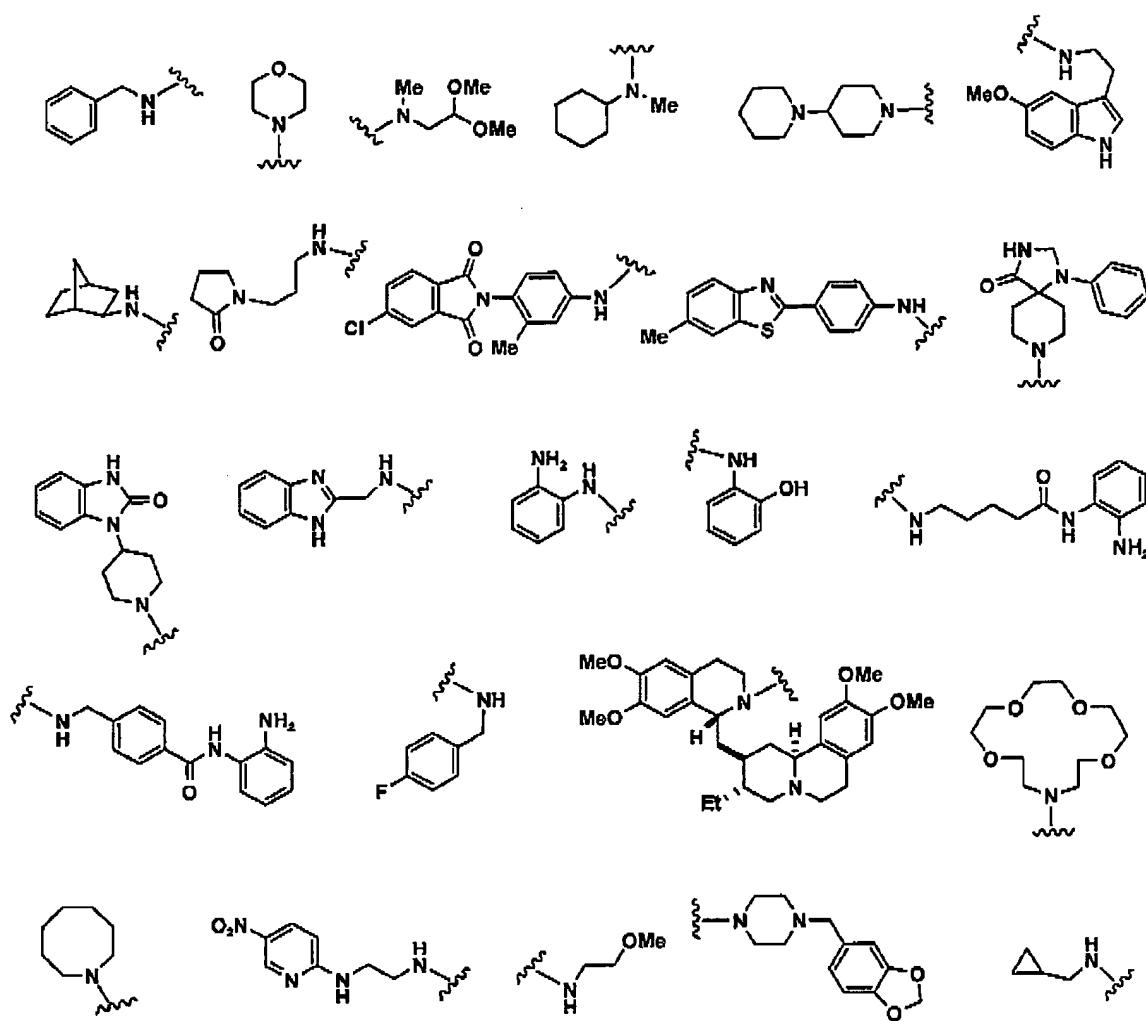
11. (Original) The compound of claim 1, wherein R⁴ is hydrogen or an alkyl, heteroalkyl, aryl, heteroaryl, -(alkyl)aryl, -(alkyl)heteroaryl, -(heteroalkyl)aryl, or -(heteroalkyl)heteroaryl moiety; wherein each of the foregoing alkyl or heteroalkyl moieties may be substituted or unsubstituted, linear or branched, cyclic or acyclic, saturated or unsaturated; and wherein each of

the foregoing aryl, heteroaryl, -(alkyl)aryl, -(alkyl)heteroaryl, -(heteroalkyl)aryl, or -(heteroalkyl)heteroaryl moieties may be substituted or unsubstituted.

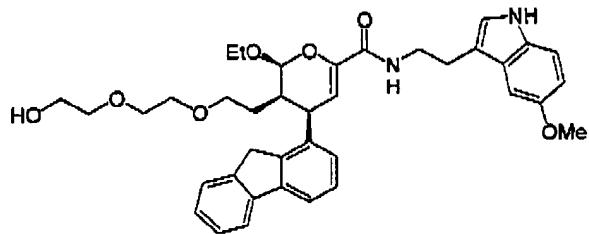
12. (Original) The compound of claim 11, wherein R⁴ is hydrogen alkyl or heteroalkyl.

13. (Original) The compound of claim 1, wherein R⁵ and R⁶ are each independently hydrogen or an alkyl, heteroalkyl, aryl, heteroaryl, -(alkyl)aryl, -(alkyl)heteroaryl, -(heteroalkyl)aryl, or -(heteroalkyl)heteroaryl moiety; or wherein R⁵ and R⁶, taken together, form a substituted or unsubstituted, saturated or unsaturated cyclic moiety comprising 5-12 carbon atoms, 0-5 oxygen atoms, 0-5 sulfur atoms and 1-5 nitrogen atoms; and wherein each of the foregoing alkyl or heteroalkyl moieties may be substituted or unsubstituted, linear or branched, cyclic or acyclic, saturated or unsaturated; and wherein each of the foregoing aryl, heteroaryl, -(alkyl)aryl, -(alkyl)heteroaryl, -(heteroalkyl)aryl, or -(heteroalkyl)heteroaryl moieties may be substituted or unsubstituted.

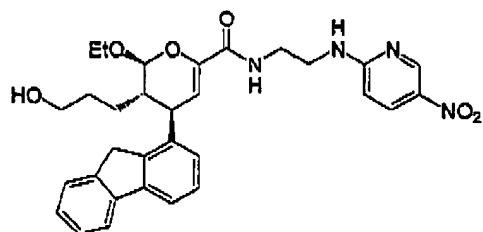
14. (Original) The compound of claim 1, wherein -NR⁵R⁶ is one of the following the structures:



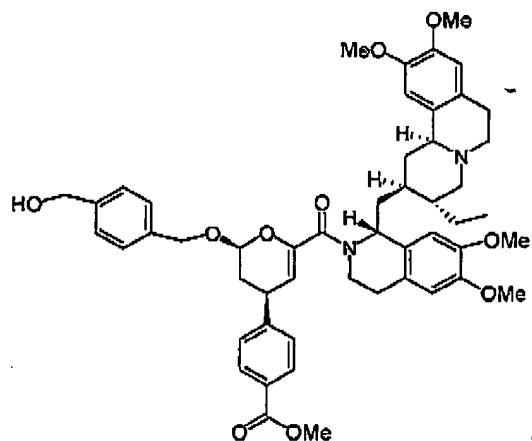
15. (Original) The compound of claim 1 having the structure:



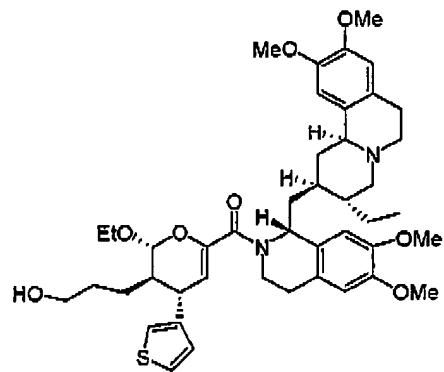
16. (Original) The compound of claim 1 having the structure:



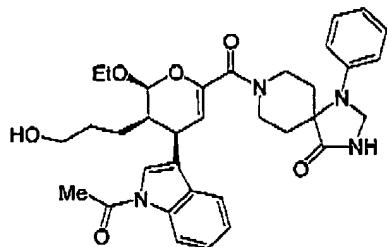
17. **(Currently Amended)** [The] **A** compound [of claim 1] having the structure:



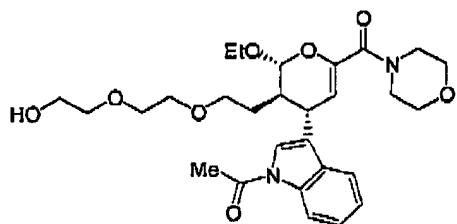
18. **(Original)** The compound of claim 1 having the structure:



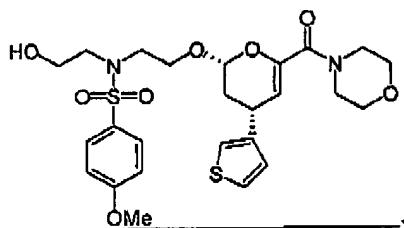
19. **(Original)** The compound of claim 1 having the structure:



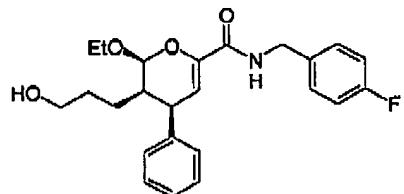
20. (Original) The compound of claim 1 having the structure:



21. (Previously Amended) The compound of claim 1 having the structure:



22. (Currently Amended) [The] A compound [of claim 1] having the structure:



23. (Original) A collection of compounds comprising two or more of the compounds of claim 1 or 2.

24. (Original) The collection of claim 23, wherein the collection is provided in array format.

25. **(Original)** The collection of claim 23, wherein the collection is provided in array format on a glass slide.
26. **(Original)** The collection of claim 23, wherein the collection comprises at least 100 compounds.
27. **(Original)** The collection of claim 23, wherein the collection comprises at least 1,000 compounds.
28. **(Original)** The collection of claim 23, wherein the collection comprises at least 2,000 compounds.
29. **(Original)** The collection of claim 23, wherein the collection comprises at least 10, 000 compounds.
30. **(Original)** A pharmaceutical composition comprising:
a compound of any one of claims 1, 2, 5, 8, 10, 14, and 15-22; and
a pharmaceutically acceptable carrier.

Claims 31-39. Canceled